HI-PE Plus Walk Through Metal Detector

The HI-PE Plus Walk Through Metal Detector is an

Features

- Accurate Detection of all Metallic Threat Items
- High Discrimination and Throughput
- Exceptional Immunity to external interferences
- Compliant with and Certified to the Strictest Security Standards for weapons detection
- Unmatched Reliability
- Rapid Installation
- Panel Design

*Data available upon request

Applications

- Government Buildings
- Industries (Security)
- Nuclear Facilities (Security)
- Prisons (visitors)
- Public Events
- Amusement Parks
- Courts
- Cruise ships
- Data Processing Centers (EDP)
- Hotels
- Schools Security

60 LOCALIZATION ZONES: • 20 VERTICAL • 3 LATERAL

The HI-PE Plus Multi-Zone Metal Detector is a development of the well-established HI-PE model.

It provides accurate detection of all metals, high level of discrimination,

It is fully complainant with the latest Security Standards and exceptional immunity to external Interference.

- Capability to detect the full range of metal weapon threats even within body cavities
- Met-Identity technology for Identification of Threat Composition

MET-IDENTITY TECHNOLOGY

With Met-Identity technology, the HI-PE Plus allows you to know where, how much and what type of metal is being brought into the secure area.

· FERROUS METAL   · NON FERROUS METAL

The most advanced Security Standards require detection of all ferrous and non-ferrous metal weapons and of those constructed in special non-magnetic alloys. It will detect firearms and knives, even when they are hidden within body cavities and accurately indicate the position of the threat, its intensity and its prevalent composition.

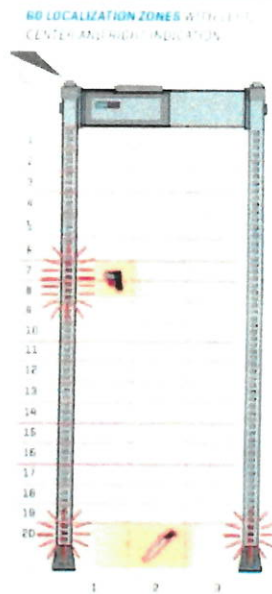60 LOCALIZATION ZONES WITH FULL CENTER AND HIGH LOCALIZATION

BENEFITS

- Cutting-edge discrimination technology allows personal effects to be ignored, creating rapid transit flow

The transit volume magnetic scanning system, invented by CEIA and applied since production of the first zonal Metal Detectors in 1986, allows state-of-the-art detection and discrimination results. The HI-PE Plus has a very low nuisance alarm rate even at the strictest Security Levels requested today, and therefore allows high transit flow rates and the minimum need for intervention by inspection personnel.

ALARM

NO ALARM

UNIQUE ALARM SIGNALLING

- 4 Multi-Zone Display Bars, each programmable as entry Stop/Go and/or local alarm indication
- High visibility of the control unit and the zone indication independent from the operator position and the installation environment
- Accurate signalling is essential for best operation and flow management. The HI-PE Plus provides the user with fully-programmable signalling. Both entry-points can indicate with a high level of accuracy, even simultaneously, the vertical and lateral areas of transit of the threats detected and can also be configured as 'traffic lights' to control transits through the detector.
- Flexible Acoustic Alarm Signalling System:
    - 10 Continuous and Pulsed Tones
    - 34 Special Sounds
- 10 Acoustic Intensity Levels
- A complete acoustic alarm system allows personalization of the alarm tones and intensities, with a wide choice of continuous, pulsed and special tones at different levels of intensity. The wide volume control dynamic allows operation even in very noisy environments.
- High Precision Transit Counter:
    - In-Bound Transits
    - Out-Bound Transits
    - Alarm Rate
    - Automatic Compensation for repeated transits of the same person

The Metal Detector provides an automatic count of the people passing through the access point in both directions and the related nuisance alarm percentage.

4 MULTI-ZONE DISPLAY BARS
Light bars indicate metal position vertically and laterally and can also show pacing lights

HIGH PRECISION TRANSIT COUNTER
Two photocells fitted into the archway allow counting of transits, alarms and percentage of alarms
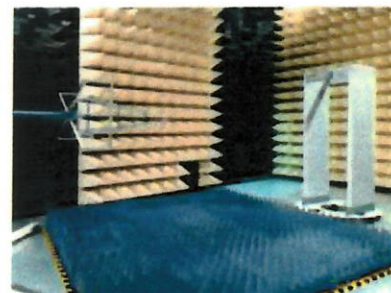
MOST POWERFUL AND VERSATILE SECURITY FEATURES

- Up to 50 built-in Security Programs
    - Up to 30 International Standards
    - Up to 20 Customizable Levels

Setting the Security Levels could not be easier and more versatile than in the HI-PE Plus. Users can choose directly from the known International Standards or request implementation of a Standard personalized to their own requirements. Users can also create their own work program and save it in internal memory provided for the purpose.

- Chip Card system for fast, simple and secure parameter changes (i.e. alarm volume and tone, counter reading, etc...) and security level selection
- Any security standard can be enhanced with selectable random alarm probability

CHIP CARD SYSTEM
The system allows the Head of Security to set the Security Level quickly, reliably and without having to program the device in any way
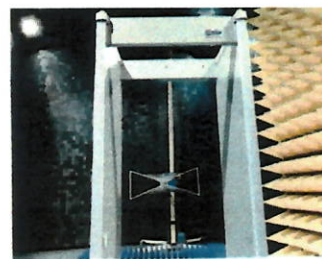
RAPID INSTALLATION

- One touch guided automatic installation (OTS) Innovative function assisting the installation through an automatic step-by-step procedure
- Continuous self diagnostics assures monitored performance reliability

COMMUNICATION CAPABILITIES

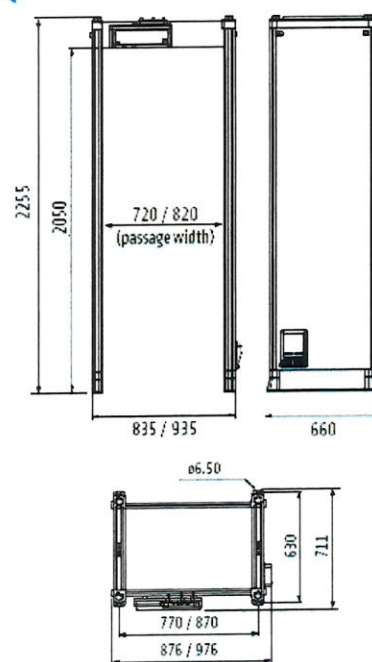| TYPE OF OPERATION	Ethernet	USB	Infrared	Bluetooth	RS-232
Maintenance	○	○		■	■
Remote Control	○		■	■	■
Remote Data collection	○				

■ STANDARD ○ OPTION

EXCEPTIONAL IMMUNITY
to environmental interferences makes the Metal Detector easy to use even when electrical noise is encountered.

MODEL CONFIGURATION

FEATURES	HI-PE PLUS/PZ
Compliant with the strictest detection and discrimination standards for EMDs (Enhanced Metal Detectors)	■
4 display bars each programmable as zone indicators and/or pacing lights	■
60 localization zones (20 vertical x 3 lateral) with left, center and right indication	■
Chip Card Reader	■
Bluetooth, infrared and RS-232 communication	■
High precision transit counter	■
Programmable Random Alarm capability	■
3-Level Password and hardware key access protection	■
Met-Identity technology (separate Ferrous and Non-Ferrous alarm signaling)	■
One Touch Automatic Self Installation (OTS)	■
Automatic Operational Functional Verification (OFV)	■
Automatic Vibration Compensation (AVS, EVA)	■
Automatic Channel Search (CS)	■
Automatic Floor Gain Adjustment (FGA)	■
Automatic Technical Functional Verification (TFV)	■
Automatic Environmental Noise Compensation (ENA)	■
Powered by safe low voltage DC	■
Anti-tamper on/off switch	■
Integrated web-server & logger (includes Ethernet and USB interface)	○
Weather resistant protection	○
Anti-vandalism, anti-tampering protection (with IP65 control unit)	○
IP65 protection (IP65 control unit, IP67 power supply adapter, anti-vandalism protections, weatherproof gate structure, compliant with IEC 60950-22)	○
Embedded battery charger and under-voltage protection	○
Long life crossbar battery back-up	○
820 mm useful passage width	○

■ STANDARD ○ OPTION

DIMENSIONS [mm]

2255
2050
720 / 820 (passage width)
835 / 935
660
ø6.50
630
711
770 / 870
876 / 976

UNDER THE ALARM THRESHOLD
* Small metal mass
**** Medium metal mass

OVER THE ALARM THRESHOLD
** Medium metal mass
**** Large metal mass

Green and Red Metering Signals Proportional to the Metal Mass Detected.

OPTIONS / UPGRADE KITS

- **Weather Resistant Protection**

  Kit for upgrading the standard version to outdoor applications according to IEC 60950-22; this kit includes shelters, crossbars, protection covers for power supply and IP67 mains power supply adapter.
    - 720 mm passage width (part # 55630)
    - 820 mm passage width (part # 55633)

- **Anti-Vandalism, Anti-Tampering Protection**

  This option includes stainless steel control unit, IP67 mains power supply adapter, protection covers for power supply and antenna connection compartments, equipped with screws requiring tools for removal. Part # 55629

- **Ip65 Protection**

  This option includes the Weather Resistant and Anti-vandalism kits.
    - 720 mm passage width (part # 55631);
    - 820 mm passage width (part # 55632)

- **820 mm Useful Passage Width**
    - Part # 55635

- **Long Life Crossbar Battery Back-Up**

  Crossbar battery back-up in stainless steel case. Provides up to 8 hours of autonomous working time.
  Part # 55681

- **Embedded Battery Charger and Under-Voltage Protection**

  Anti-tamper on/off switch, RS-232 interface, battery charger with 12 hours mains disconnection diagnostic alarm.
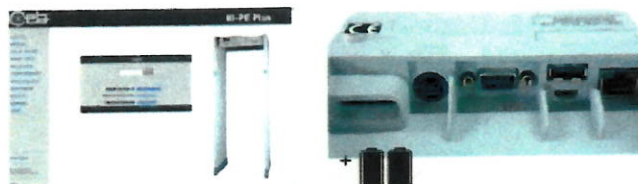 Part # APSM2Plus/P

- **Integrated web-server & logger, battery back-up and charger**

  Anti-tamper on/off switch, RS-232, USB, 10/100 baseT Ethernet interface, data logger, real-time clock, integrated web-server, transit statistical data analysis, 20' internal battery back-up with 12 hours mains disconnection diagnostic alarm.
  Part # APSiM2Plus/P

ACCESSORIES

- **Chip Cards**
  Chip cards for simple and secure selection of Security Levels and parameter setting. List of chip-cards available on request.
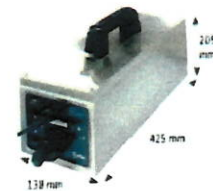
- **MBSU-2**
  Independent, compact size, long life power supply in weatherproof stainless-steel case, with embedded
  fast charger:
  - 14 hours typical (10 hours minimum) continuous operation with HI-PE Plus
  - 5 hours typical charging time.
  Part # MBSU-2

- **IRC-1**
  Infrared Remote Controller for wireless remote programming of the control unit.
  Part # 47180

- **Upper Connection Module**
  This extension cable allows the connection of power supply and serial communication to personal computers or CEIA accessories, such as RCU-2. Part # 46650

- **RRU**
  Remote relay unit (RRU) to repeat the detection alarms of the gate through a relay contact. The RRU module can be used for integration of the Metal Detector in interlocked door systems. Part # RRU
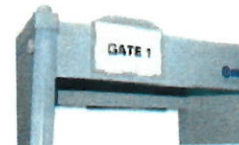
- **IP67 Mains Power Supply**
  100W IP67 power supply for heavy duty applications. Vandal resistant. It is provided with flanges for simple installation.
  Part # 74504

- **ID-HOLDER**
  This accessory is designed to be hung on a crossbar of the archway, either at the entrance or the exit side. It can hold, for instance, a notice or an ID number for waiting people or for the screener. Part # 54095

- **RCU2** Control unit for full remote access, including alarm signalling and programming of CEIA Walk Through Metal Detectors (part # RCU2). The connection is performed via Bluetooth (standard) or via cable connection (part # 3618).

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- **MD-SCOPE**
  Powerful, PC based installation and service software. Includes oscilloscope and terminal functionality (part # MD-SCOPE2).
  The connection is performed via Bluetooth (standard) or via cable conne ction (part # 3805)

- **Metal Detector Divesting Table**
  In combination with CEIA Walk-Through Metal Detectors, it is a temporary location of personal metal effects for people to be screened.
  - Standard length: 610 mm (Part # 18074)
  - Extended length: 1200 mm (Part # 39491)
  - Outdoor version: 1300 mm (Part # 67021)

- **Stainless steel deck dolly - for local moving of the panel metal detector gate**
  - Robust construction in AISI 316L stainless steel
  - Rubber-covered castor-type wheels for easy movement
  - Incorporated handles for transport (available only for 720 mm useful passage width: part # 50789)
- **Test Samples Kit**

  Reference Samples for accurate verification of the Security Level. Includes guided procedures and certificate of calibration.
  - Part # EMD-SK-GAL
  - Part # EMD-SK-GDML

SPECIFICATIONS

KEY FEATURES		
	Wide range of threat detection from guns to ½ cutter blade	Automatic Environmental Noise Compensation (ENA)
	Excellent discrimination of personal metal effects	Met Identity technology identifies and signals the metal type in real time
	60 localization zones (20 vertical x 3 lateral) with left, center and right indication	High precision bidirectional counter with automatic rescreening compensation
	One touch automatic self installation (OTS)	Chip Card capability for fast, simple and secure programming
	Automatic Operational Functional Verification (OFV)	Random alarm capability, programmable from 0% to 100%
	Automatic Vibration Compensation (AVS,EVA)	Exceptional immunity to external interferences
	Automatic Channel Search (CS)	Powered by safe low voltage DC
	Automatic Floor Gain Adjustment (FGA)	Standard Interfaces RS-232, Bluetooth, Infrared
	Automatic Technical Functional Verification (TFV)	Other available interfaces Wi-Fi, Ethernet, USB
QUALITY	Continuous self diagnostic system	
	Proven reliability	
	No periodic re-calibration and preventive maintenance required	
	No scheduled maintenance	
	Fully digital design	
WALK-THROUGH GATE STRUCTURE	State-of-the-art, robust and washable panels	
	Protected against aging weather and wear	
CENTRAL CONTROL UNIT	Ergonomic and robust design	
	High visibility alphanumeric display and programming keyboard	
	Made of advanced plastics or stainless steel and anti-vandalism construction (option)	
	Access to the front panel protected by hardware key and 3 levels of passwords	
ALARM SIGNALING	VISUAL SIGNALS	Multi-zone display bar for "height on person" localization
		4 light bars with selectable entry/exit and pacing indication
		Green and red metering signals proportional to the mass of the detected target
	AUDIO SIGNALS	10 selectable continuous and pulsed tone plus 34 special tones
		10 selectable sound intensities ranging from 0 to 90 dBA at 1m
TYPE OF SIGNALING	VISUAL	Fixed or proportional to the mass in transit - visible from 6m under lighting of 4000lux
	VISUAL ZONE INDICATION	60 distinct zones (20 vertical x 3 lateral) entry and exit side
PROGRAMMING	Up to 50 built-in security programs (up to 30 International Standards, up to 20 Customizable Levels)	
	Remote via RS-232, Infrared Remote Control Unit, Bluetooth or Ethernet 10/100 base T (option) interface	
	SECURITY LEVEL	International Standard (IS) command
		Chip card
	Local by Control Unit alphanumeric display and keyboard	
	Programming and chip card access protected by user and super-user passwords	
OPERATIONAL FEATURES	Very high discrimination and transit flow rates five or more times greater than other metal detection systems	
	Quick reset time as short as 0.2 seconds for high throughput rate	
	Very high detection speed (up to 15 m/sec.)	
	Built-in operational functional verification	
	One-touch key reading of inbound, outbound and Security Level Data	
INSTALLATION DATA	Automatic synchronisation between two or more metal detectors with distance of down to 5 cm without the use of external cables	
	Automatic installation function (OTS)	

ENVIRONMENTAL DATA

- **POWER SUPPLY** : 100...240V~ -10/+15%, 47...63Hz, 40 VA max
- **OPERATING TEMPERATURE:** -20°C to +70°C (-37°C to +70°C upon request)
- **STORAGE TEMPERATURE:** -37°C to +70°C
- **RELATIVE HUMIDITY:** 0 to 95% (without condensation)

CERTIFICATION & COMPLIANCE

- Compliant with and certified to the applicable Standards for Enhanced Metal Detectors (EMD)
- Compliant with the applicable electromagnetic Standards on Human Exposure and Pacemaker Safety
- Compliant with all Airport Security Standards worldwide
- Compliant with applicable International Standards for electrical safety and EMC
- Harmless to magnetic media (CD, tapes, etc.)

COMPREHENSIVE SUPPORT

CEIA PROVIDES FULL OPERATIONAL AND TECHNICAL TRAINING SUPPORT BY CERTIFIED PERSONNEL EITHER AT CEIA FACILITY OR AT CUSTOMER PREMISES.

- phone technical support
- in-house and on-site repair/services
- standard and custom training